

DESCRIPTION:

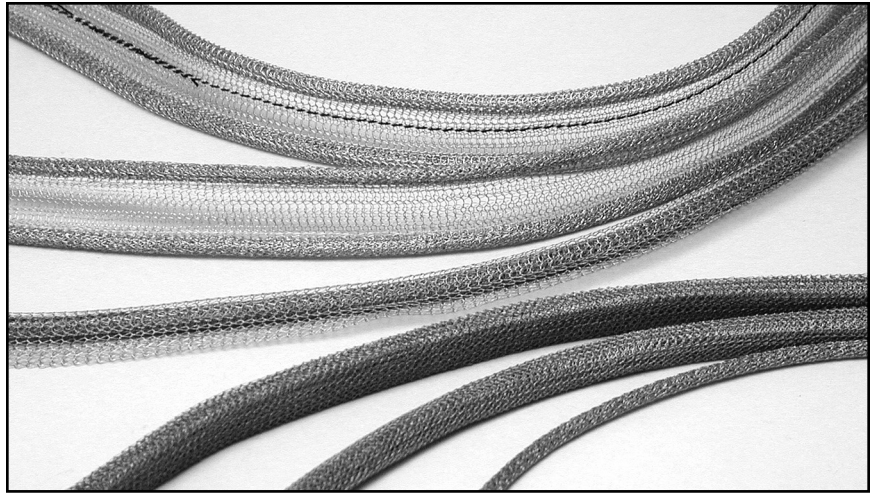
Wire mesh shielding utilizes single-strand wire, available in a wide range of metals, knitted and formed into pre-specified cross sections, yielding an economical and reliable gasket for the use in a variety of shielding applications. Cross sections vary from round and rectangular to round with a fin, and double round with a fin interconnector.

APPLICATION:

Wire mesh gaskets are best suited for those applications where high shielding effectiveness is required, an environmental seal is not needed, and the gasket must conform to an irregular surface. Panel gaskets, cable wrapping, door gaskets, and static discharge “washers”, are just a few of the commonly chosen applications.

COMPATIBILITY:

(To the mating surfaces), and environmental conditions must be considered when choosing the type of mesh gasket used. Compatible metals have been listed together below for quick reference. Metals from one group should not be used with metals from another group without first applying a protective coating. Tin, Cadmium, and Zinc may be used with all metals in both Groups II & III.



| Group I | Group II | Group III | Group IV |
|---------------------|-----------------|-----------------|-----------------|
| Magnesium Alloys | Aluminum | Zinc | Copper |
| Tin | Aluminum Alloys | Cadmium | Copper Alloys |
| Aluminum Alloy 5052 | Zinc | Steel | Chromium |
| Aluminum Alloy 5056 | Cadmium | Lead | Stainless Steel |
| Aluminum Alloy 5356 | Tin | Tin Tin Lead | Gold |
| Aluminum Alloy 6061 | Stainless Steel | Stainless Steel | Silver |
| Aluminum Alloy 6063 | Tin Lead | Nickel | Nickel |

Table 3.1

SPECIFICATIONS: Listed below are those wire mesh materials most commonly used for EMI/RFI shielding.

| Part No. | Wire | Specification | Diameter |
|----------|------------|---------------|----------|
| 301 | Monel | QQ-N-281 b | .0045 |
| 302 | SnCuFe | ASTM B520 | .0045 |
| 303 | Aluminum | AMS 4182 | .0050 |
| 304 | SnPhBronze | ASTM B105 | .0045 |
| 305 | AG Brass | QQ-W-321 | .0045 |
| 306 | Stainless | Alloy 304 | .0060 |

Other metals are available by special request.

AVAILABLE CROSS-SECTIONS

| | |
|------|---------------------------|
| 1xxx | Rectangular Cross Section |
| 2xxx | Round Cross Section |
| 3xxx | Dumbbell Cross Section |
| 4xxx | Tadpole Cross Section |
| 5xxx | Compressed Mesh Unit |

PERFORMANCE CHARACTERISTICS

| Material: | Monel | SnCuFe | Aluminum | SnPhBronze |
|--------------------------|-------|--------|----------|------------|
| Shielding db: 100 KHz | 45 | 50 | 40 | 65 |
| 10 MHz | 115 | 115 | 100 | 120 |
| 500 KHz | 110 | 110 | 90 | 110 |
| 1 GHz | 95 | 95 | 80 | 95 |
| Closure Force: (Min psi) | 10 | 10 | 10 | 10 |

Table 3.3

Knitted Wire Mesh Materials

Series 300

RECTANGULAR GASKETING

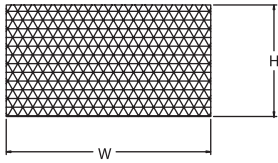


Figure 3.1 - Rectangular Gasket

| Part No. | W | H |
|----------|-------|-------|
| 1001 | 0.062 | 0.062 |
| 1002 | 0.062 | 0.125 |
| 1003 | 0.062 | 0.187 |
| 1004 | 0.062 | 0.250 |
| 1005 | 0.062 | 0.312 |
| 1006 | 0.062 | 0.375 |
| 1007 | 0.062 | 0.500 |
| 1033 | 0.062 | 0.625 |
| 1034 | 0.062 | 0.750 |
| 1035 | 0.062 | 1.000 |
| 1008 | 0.093 | 0.093 |
| 1009 | 0.093 | 0.125 |
| 1010 | 0.093 | 0.187 |
| 1011 | 0.093 | 0.250 |
| 1012 | 0.093 | 0.312 |
| 1013 | 0.093 | 0.375 |
| 1014 | 0.093 | 0.500 |
| 1036 | 0.093 | 0.625 |
| 1015 | 0.125 | 0.125 |
| 1037 | 0.125 | 0.156 |
| 1016 | 0.125 | 0.187 |
| 1017 | 0.125 | 0.250 |
| 1018 | 0.125 | 0.312 |
| 1019 | 0.125 | 0.375 |
| 1020 | 0.125 | 0.500 |
| 1038 | 0.125 | 0.625 |
| 1039 | 0.125 | 0.750 |
| 1040 | 0.125 | 1.000 |
| 1021 | 0.187 | 0.187 |
| 1022 | 0.187 | 0.250 |
| 1023 | 0.187 | 0.312 |
| 1024 | 0.187 | 0.375 |
| 1025 | 0.187 | 0.500 |
| 1041 | 0.187 | 0.625 |
| 1042 | 0.187 | 0.750 |
| 1043 | 0.187 | 1.000 |
| 1026 | 0.250 | 0.250 |
| 1027 | 0.250 | 0.312 |
| 1028 | 0.250 | 0.375 |
| 1029 | 0.250 | 0.500 |
| 1044 | 0.250 | 0.625 |

DUMBBELL GASKETING

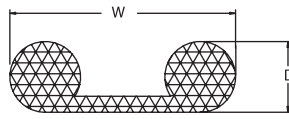


Figure 3.3 - Dumbbell Gasketing

| Part No. | BULBS | W (Overall) |
|----------|-------|-------------|
| 3050 | 0.062 | 0.375 |
| 3051 | 0.062 | 0.500 |
| 3052 | 0.062 | 0.625 |
| 3053 | 0.062 | 0.675 |
| 3054 | 0.062 | 0.750 |
| 3055 | 0.062 | 0.875 |
| 3056 | 0.093 | 0.500 |
| 3057 | 0.125 | 0.500 |
| 3058 | 0.125 | 0.625 |
| 3059 | 0.125 | 0.675 |
| 3060 | 0.125 | 0.750 |
| 3061 | 0.125 | 0.875 |
| 3062 | 0.125 | 1.000 |
| 3063 | 0.187 | 0.625 |
| 3064 | 0.187 | 0.750 |
| 3065 | 0.187 | 0.875 |
| 3066 | 0.187 | 1.000 |
| 3067 | .0250 | 0.750 |
| 3068 | 0.250 | 0.875 |
| 3069 | 0.250 | 1.000 |
| 3070 | 0.250 | 1.250 |
| 3071 | 0.375 | 1.000 |
| 3072 | 0.375 | 1.250 |

TADPOLE GASKETING

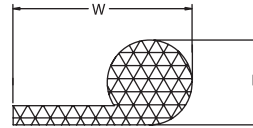


Figure 3.4 - Tadpole Gasketing

| Part No. | D (Bulb) | W (Overall) |
|----------|----------|-------------|
| 4050 | 0.062 | 0.375 |
| 4051 | 0.062 | 0.500 |
| 4052 | 0.062 | 0.625 |
| 4053 | 0.062 | 0.750 |
| 4054 | 0.093 | 0.375 |
| 4088 | 0.093 | 0.500 |
| 4055 | 0.093 | 0.750 |
| 4056 | 0.125 | 0.375 |
| 4057 | 0.125 | 0.437 |
| 4067 | 0.187 | 0.625 |
| 4068 | 0.187 | 0.750 |
| 4069 | 0.187 | 0.875 |
| 4070 | 0.250 | 0.500 |
| 4071 | 0.250 | 0.625 |
| 4072 | 0.250 | 0.750 |
| 4073 | 0.250 | 0.875 |
| 4074 | 0.250 | 1.000 |
| 4075 | 0.312 | 0.625 |
| 4076 | 0.312 | 0.750 |
| 4077 | 0.312 | 0.875 |
| 4058 | 0.125 | 0.500 |
| 4059 | 0.125 | 0.562 |
| 4060 | 0.125 | 0.625 |
| 4061 | 0.125 | 0.750 |
| 4062 | 0.156 | 0.500 |
| 4063 | 0.156 | 0.625 |
| 4064 | 0.156 | 0.750 |
| 4065 | 0.187 | 0.437 |
| 4066 | 0.187 | 0.500 |
| 4078 | 0.375 | 0.625 |
| 4079 | 0.375 | 0.750 |
| 4080 | 0.375 | 0.875 |
| 4081 | 0.375 | 1.000 |
| 4082 | 0.437 | 0.750 |
| 4083 | 0.437 | 0.875 |
| 4084 | 0.437 | 1.000 |
| 4085 | 0.500 | 0.750 |
| 4086 | 0.500 | 0.875 |
| 4087 | 0.500 | 1.000 |

ROUND GASKETING

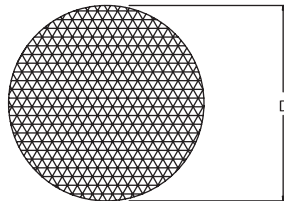


Figure 3.2 - Round Gasketing

| Part No. | Diameter |
|----------|----------|
| 2001 | 0.062 |
| 2002 | 0.093 |
| 2003 | 0.125 |
| 2004 | 0.156 |
| 2005 | 0.187 |
| 2006 | 0.250 |
| 2007 | 0.312 |
| 2008 | 0.375 |
| 2009 | 0.437 |
| 2010 | 0.500 |